

RGA scans of test dewar

December 23, 2005 (PR and SP)

Before degassing RGA head

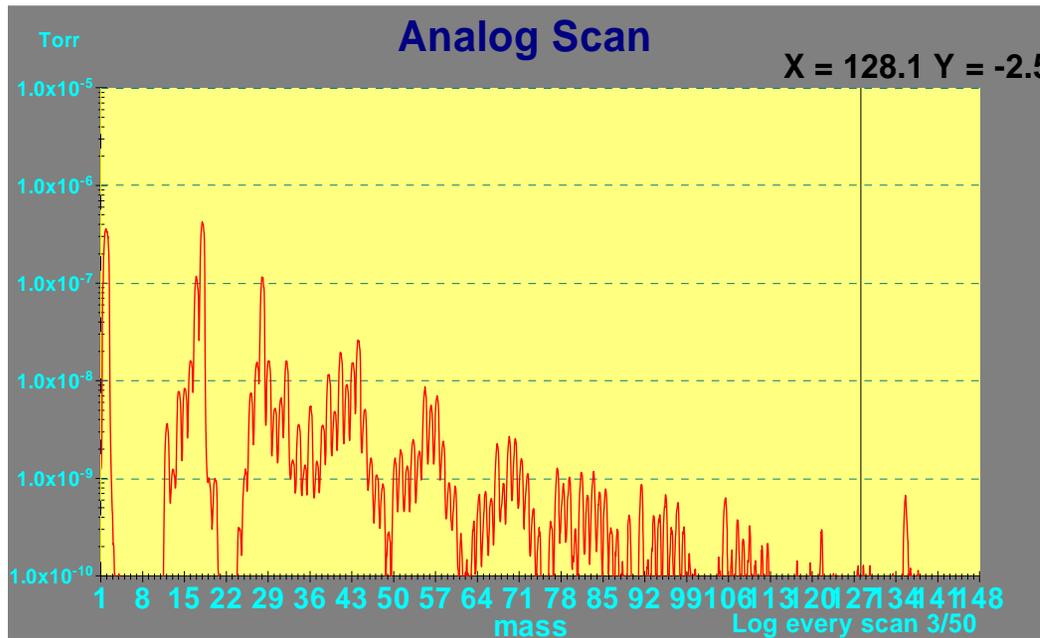
After degassing RGA head

Ion Gauge readings :

Vacuum (with RGA off) before degassing 6.0 E-7 Torr

Vacuum (with RGA on) after degassing 6.9 E-7 Torr

Vacuum (with RGA off) after degassing 6.2 E-7 Torr



Spectrum Analysis	
Acetone	2.0%
Air	5.4%
Argon	0.4%
Carbon dioxide	2.4%
Carbon monoxide	0.0%
Ethane	6.3%
Ethyl alcohol	1.3%
Hydrogen	28.5%
Methane	0.0%
Nitrogen	7.1%
Turbopump Oil	3.2%
Water	43.3%

Done Setup Help

Dec 27, 2005 14:40

Test dewar (P.R.)

Scan parameters are:

1-148 AMU's range

20 points per AMU

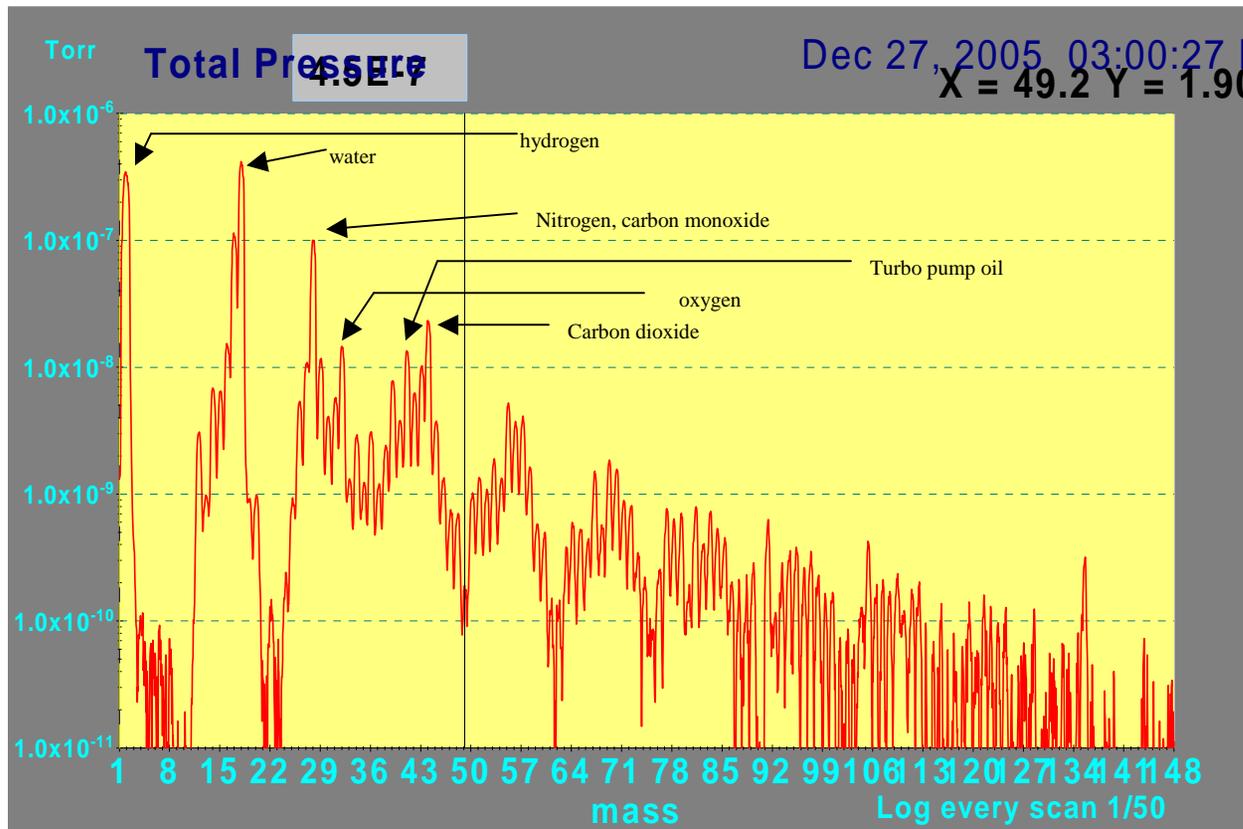
Scale factor and scan speed = 1

Waited for RGA to stabilize for 20 minutes.

Pressures

Before turning on RGA 5.1 E-7

After turning on RGA 6.0 E-7



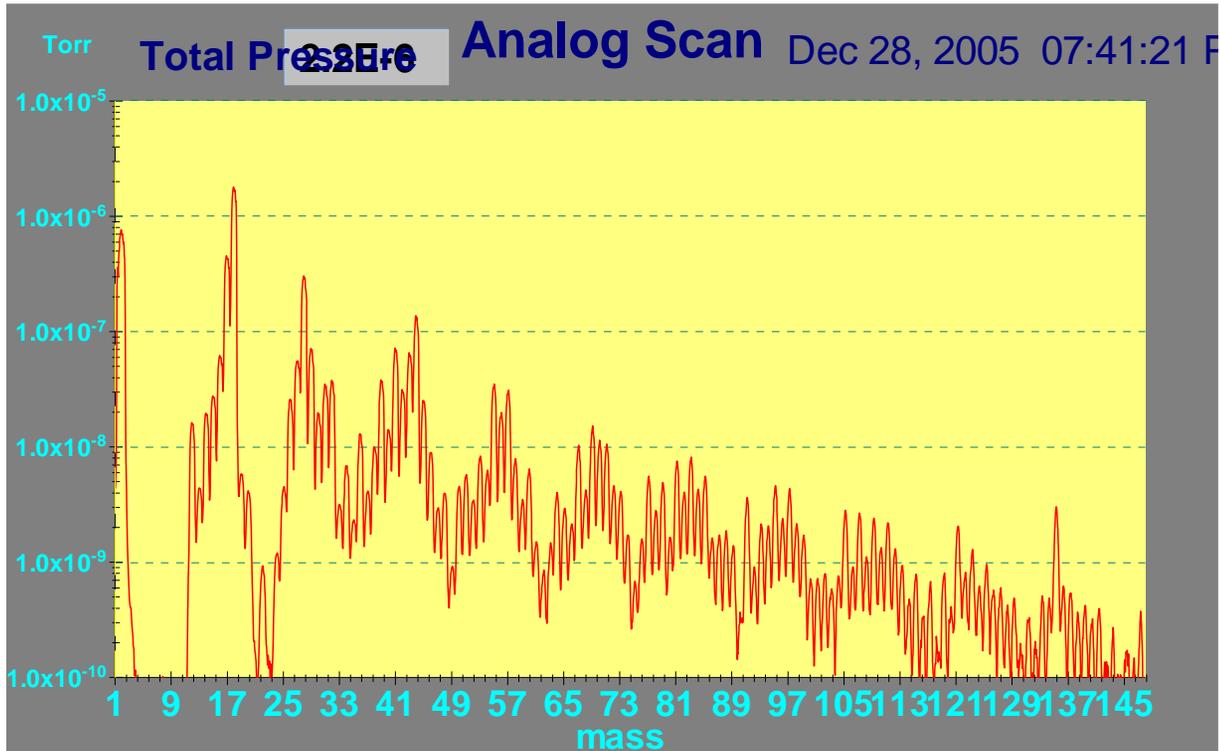
Spectrum Analysis	
Acetone	2.1%
Air	5.3%
Argon	0.3%
Carbon dioxide	2.3%
Carbon monoxide	0.0%
Ethane	4.9%
Ethyl alcohol	1.1%
Hydrogen	29.4%
Methane	0.0%
Nitrogen	7.5%
Turbopump Oil	1.7%
Water	45.5%

Done Setup Help

Dec 27, 2005 at 15:00 Pressure on ion gauge is 5.9 E-7

Pressure from RGA program (hard to see above) 4.5 E-7

Note different scale from previous graphs



Spectrum Analysis	
Acetone	2.6%
Air	3.4%
Argon	0.3%
Carbon dioxide	3.7%
Carbon monoxide	0.0%
Ethane	6.9%
Ethyl alcohol	2.0%
Hydrogen	17.7%
Methane	0.0%
Nitrogen	7.0%
Turbopump Oil	3.6%
Water	52.8%
Done	Setup
Help	

Scan parameters are: 1-148 AMU's range

20 points per AMU Scale factor and scan speed = 1

Waited for RGA to stabilize for 20 minutes.

Pressures from ion gauge:

Before turning on RGA 1.67E-6

After turning on RGA 1.95E-6

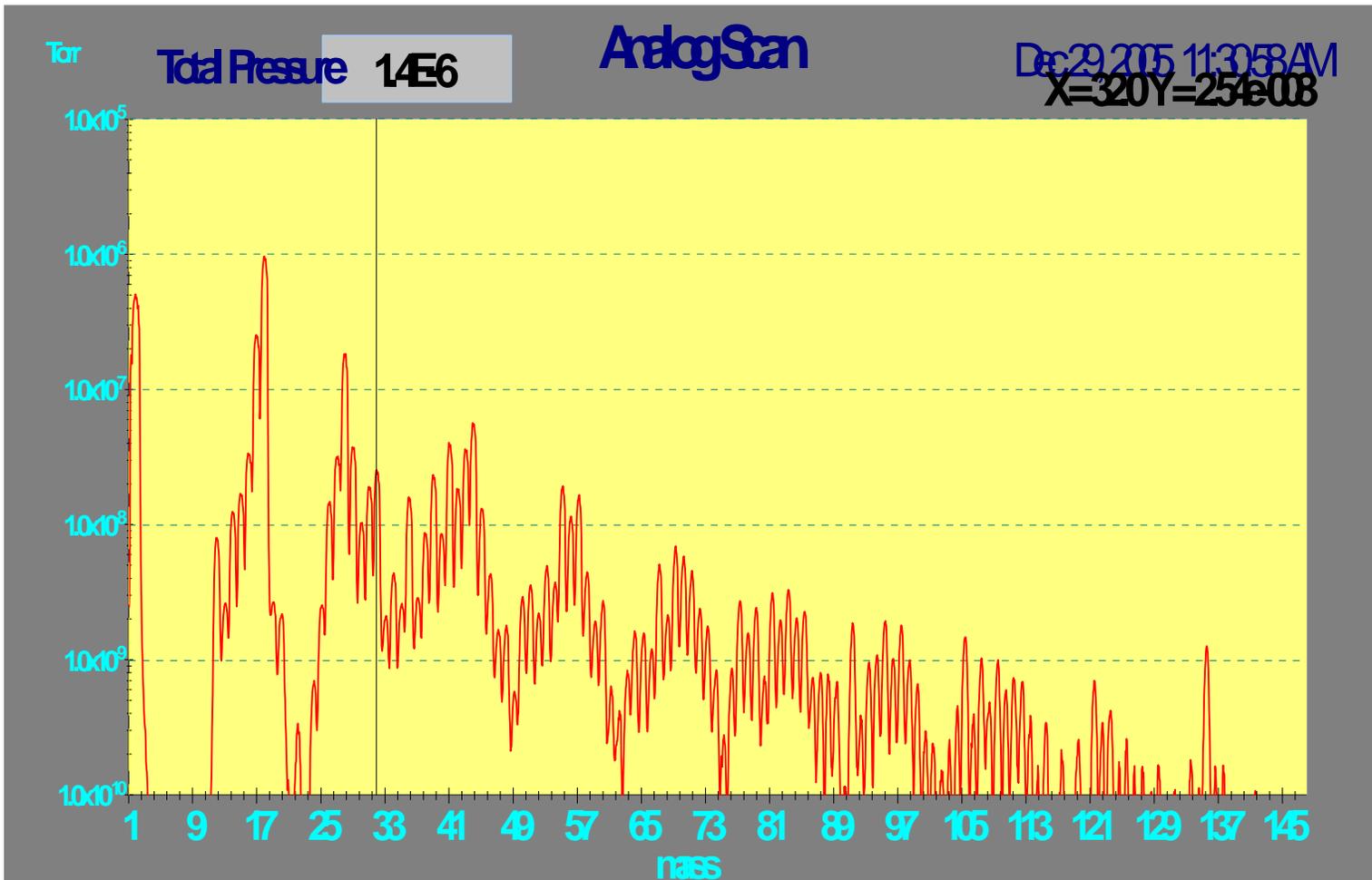
Pressure from RGA head is : 2.2 E-6

Dec 28, 2005 19:40

Test dewar (P.R.)

(dewar opened, o ring groove scored,
restarted pumping at 12:00)

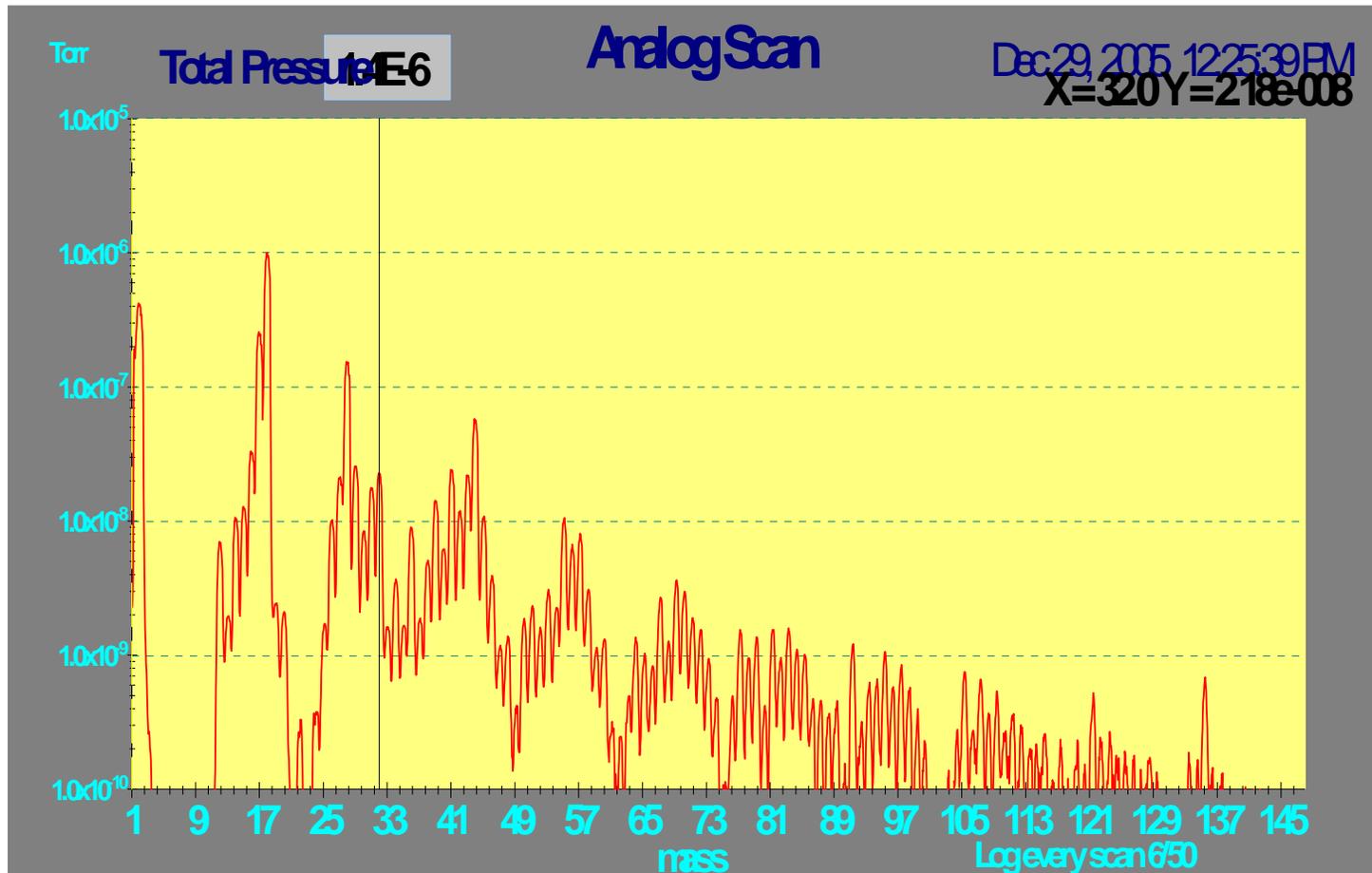
Less oxygen now ?



Dec 29, 2005 11:30 (PR,CK)

Ion gauge pressure 9.5×10^{-7} before RGA turn-on; 11.1×10^{-7} after RGA turn on

RGA derived total pressure is 1.4×10^{-6} - oxygen peak(at 32) is 2.54×10^{-8}



Spectrum Analysis	
Acetone	2.7%
Air	4.0%
Argon	0.2%
Carbon dioxide	3.0%
Carbon monoxide	0.0%
Ethane	4.8%
Ethyl alcohol	1.7%
Hydrogen	18.4%
Methane	0.0%
Nitrogen	7.8%
Turbopump Oil	1.2%
Water	56.1%

Done Setup Help

Dec 29 2005 Test Dewar 12:30

Ion gauge readings: RGA off = 9.6×10^{-7} , RGA on = 1.07×10^{-6}

RGA derived pressure 1.4×10^{-6} torr

Partial pressures at (2/hydrogen = 4.00×10^{-7})(18/water = 9.89×10^{-7})(32/oxygen = 2.18×10^{-8})